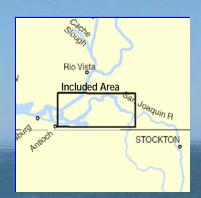
BookletChartTM

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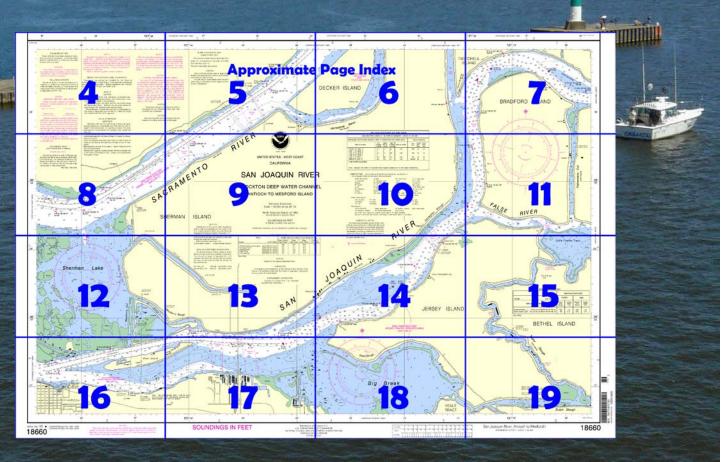
San Joaquin River – Antioch to Medford Island

NOAA Chart 18660

A reduced-scale NOAA nautical chart for small boaters When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the National Oceanic and Atmospheric Administration National Ocean Service Office of Coast Survey

<u>www.NauticalCharts.NOAA.gov</u> 888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart[™]?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

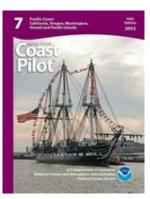
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=186 <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbycharts.noaa



(Selected Excerpts from Coast Pilot)
San Joaquin River rises in the Sierra
Nevada, flows 275 miles in a W
direction, and enters Suisun Bay
through New York Slough. The winding
river is navigable for deep-draft vessels
to Stockton. The water is generally fresh
at Antioch. Major floods in the river
valley may occur from November to
April, caused by intense general storms
of several days' duration. At the mouth
of the river an ordinary flood will cause a
rise of 8 feet and an extreme flood a rise

of 10 feet in the river level. At Stockton, ordinary flood will cause a rise of 8.5 feet, and extreme flood a rise of 13.5 feet in the river level. The

delta of the river is formed of many marshy islands intersected by sloughs and channels. The islands are reclaimed tule and cattail marshes which have been converted to agriculture. Bordering the river are levees that are 12 feet or more higher than the land behind them.

Reports of gage heights of the San Joaquin River delta can be obtained from the Sacramento National Weather Service Office at any time. The

from the Sacramento National Weather Service Office at any time. The information is published in the Sacramento Bee and, in addition, is reported on radio broadcasts from station KFBK (1530 kHz) whenever the gage heights are sufficient to be of general interest.

Information on gage heights can also be obtained from the State Department of Water Resources, 1416 9th Street, Sacramento, CA 95814 or by recorded message at (916) 653-6416.

A **Federal project** provides for a 35-foot channel from the mouth of the San Joaquin River to a turning basin at Stockton, and for suitable passing and turning basins. (See Notice to Mariners and latest editions of charts for controlling depths.)

Anchorages.—General and explosives anchorages are in the San Joaquin River on the W side of Sherman Island near the mouth, and just N of Venice Cut between Mandeville Island and Venice Island. (See 110.1 and 110.224, chapter 2, for limits and regulations.)

(See **162.205**, chapter 2, for rules and regulations governing maximum speed, passing, right-of-way, collision, and wrecks in the San Joaquin River.)

Antioch Bridge, (State Route 160), a fixed highway bridge with a clearance of 142 feet, crosses San Joaquin River about 3 miles E of Antioch. There are no other bridges over the main channel below the turning basin at Stockton. Power cables over the main channel of San Joaquin River from the mouth to the turning basin at Stockton have a minimum clearance of 140 feet.

There are small-craft facilities on the S side of San Joaquin River on both sides of Antioch Bridge. (See the small-craft facilities tabulation on chart 18661 for services and supplies available.)

The main channel in San Joaquin River to Stockton is marked by a daybeacon, buoys, lights, and lighted ranges. At **Mandeville Cut** and **Venice Cut**, 15 miles above Antioch Bridge, the river still follows its old channel and violent sheers are experienced if the navigator is not prepared to meet the river current when passing from the cuts into the river and from the river into the relatively quiet waters of the dredged channel. Under freshet conditions, vessels tend to sheer off course at the junction of the San Joaquin River and the main ship channel at Channel Point near Stockton.

Stockton, 28 miles above Antioch Bridge, is in the center of the fertile San Joaquin Valley. The deep-draft harbor is near the W city limits. **Pilotage, San Joaquin River.**—River pilots, commissioned by the Port of Stockton, are obtained by ship's agents, through the office of the Port of Stockton, or the San Francisco Bar Pilots.

Quarantine, customs, immigration, and agricultural quarantine.—(See chapter 3, Vessel Arrival Inspections, and Appendix A for addresses.)

Quarantine is enforced in accordance with regulations of the U.S. Public Health Service. (See Public Health Service, chapter 1.)

Supplies.—Supplies may be had in any quantity, and water is piped to the wharves. Ships may fuel from barges; alongside bunkering of large vessels may be done at the oil terminals in San Pablo Bay and Carquinez Strait.

Small-craft facilities.—Several small-craft facilities are at Stockton or nearby.

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Alameda

Commander 11th CG District Alameda, CA

(510) 437-3700

2

P Pump-out facilities

HEIGHTS

Heights in feet above Mean High Water.

SACRAMENTO RIVER DEEP WATER SHIP CHANNEL

Controlling depth for a width of 200 feet was 26 of feet from the channel entrance (38*03'46.7"N, 121*51*17"W) to Lt. "40", thence 27.6 feet to Lt. "52", thence 30.9 feet to Lt. "60", thence 27.5 feet to Lt. "70", thence 18.4 feet to Lt "86" and 29.4 feet in the turning basin at West Sacramento.

May 2005 - May 2006

CABLE FERRY

Cable across the river may be at or near the ater surface. Mariners should exercise caution when navigating in this area.

The prudent mariner will not rely solely or ny single aid to navigation, particularly or loating aids. See U.S. Coast Guard Light Lis and U.S. Coast Pilot for details.

CAUTION

Small craft should stay clear of large com mercial and government vessels even if small craft have the right-of-way.

All craft should avoid areas where the skin

divers flag, a red square with a diagonal white stripe, is displayed.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

CABLE FERRY

Cable across the river may be at or near the water surface. Mariners should exercise caution when navigating in this area.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84) Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.288" southward and 3.833" westward to agree with this chart.

The river between West I. and the south shore contains many submerged mooring piles approximately even with the bottom.

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine ables and submarine pipeline and cable areas

Pipeline Area

Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area or this chart. Not all submarine pipelines and sub-marine cables are required to be buried, and those that were originally buried may have pecome exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when

anchoring, dragging, or trawling.

Covered wells may be marked by lighted o

POLITION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toil free), or to the nearest U.S Coast Guard facility if telephone communication is impossible (33 CFR 153).

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges

Table of Selected Chart Notes

NOAA WEATHER BADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations

Mt. Pise, CA KHB-49 162.40 MHz WX2 Sacramento, CA KEC-57 162.55 MHz WX1

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the

U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and

should be used with caution.
Station positions are shown thus:

(Accurate location) o(Approximate location)

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Mt. Pise, CA Sacramento, CA

KHB-49 162.40 MHz WX2 KEC-57 162.55 MHz WX1

CAUTION

Mariners are warned that numerous uncharted piles, snags, pumps, pipes and wrecks, some submerged, may exist along the edges of the waterway.

Numerous buoys and signs mark the wing dams along the Sacramento River. Mariners should never attempt to pass between the warning buoys and the shore.

The backwaters, sloughs and cuts are not maintained by the Corps of Engineers and numerous uncharted should

the Corps of Engineers and numerous uncharted shoals and obstructions have been reported.

The U.S. Coast Guard operates a mandatory Vessel Traffic The U.S. Coast Guard operates a mandatory vessel Hamil-Services (VTS) system in the San Francisco Bay and sur rounding areas. Vessel operating procedures and designate radiotelephone frequencies are published in 33 GFR 161, th U.S. Coast Pliot, and/or the VTS User's Manual. The entire area of the chart falls within the Vessel Traffic Services (VTS

Navigation regulations are published in Chapter 2, U.S Coast Pilot 7. Additions or revisions to Chapter 2 are pub lished in the Notice to Mariners. Information concerning th regulations may be obtained at the Office of the Commander 11th Coast Guard District in Alameda, California or at the ffice of the District Engineer, Corps of Engineers in

RULES OF THE ROAD

(ABRIDGED)

Motoriess craft have the right-of-way in almost all cases Sailing vessels and motorboats less than sixty-five feet in length shall not hamper, in a narrow channel, the safe passage of a vessel which can navigate only inside that

motorboat being overtaken has the right-of-way

Motorboats approaching head to head or nearly so should pass port to port.

When motorboats approach each other at right angles or obliquely, the boat on the right has the right-of-way in most

Motorboats must keep to the right in narrow channels when

safe and practicable.

Mariners are urged to become familiar with the complete text of the Rules of the Road in U.S. Coast Guard publication "Navigation Rules."

CAUTION

WARNING CONCERNING LARGE VESSELS

The "Rules of the Road" state that recreational boats shall not impede the passage of a vessel that can navigate only within a narrow channel or fairway. Large vessels may appea to move slowly due to their large size but actually transit at speeds in excess of 12 knots, requiring a great distance in which to maneuver or stop. A large vessel's superstructure may block the wind with the result that sallboats and saliboards may unexpectedly find themselves unable to maneuver. Bow and stern waves can be hazardous to smal vessels. Large vessels may not be able to see small craf

BRIDGE AND OVERHEAD CABLE CLEARANCES

Clearances are charted as furnished by the Corps of Engineers and U. S. Coast Guard. Overhead cable clearances are referred to high water. Bridge clearances are referred to High Water (HW) and Low Water (LW).

AUTHORITIES

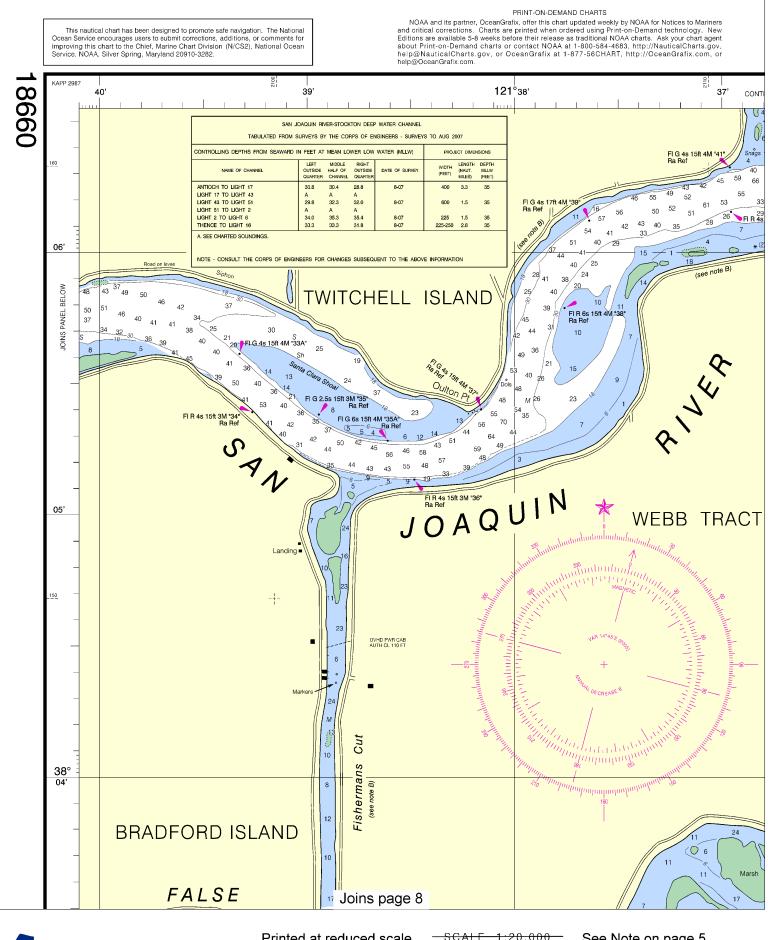
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

SOURCE DIAGRAM

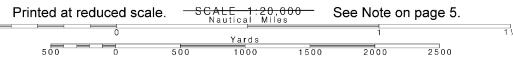
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, <u>United States Coast Pilot.</u>

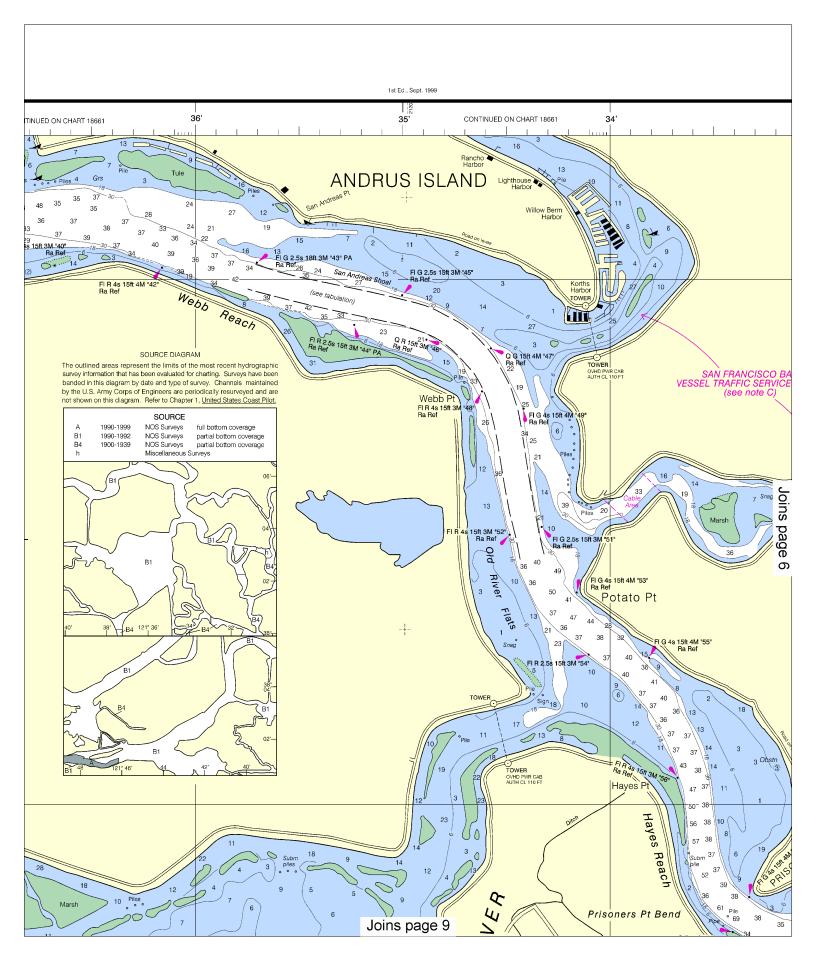
ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.) Aids to Navigation (lights are white unless otherwise indicated): AERO aeronautical G green Mo morse code R TR radio tower IQ interrupted quick Iso isophase LT HO lighthouse Rot rotating s seconds SEC sector Al alternating OBSC obscured Oc occulting C can M nautical mile Or orange St M statute miles DIA diaphone m minutes Q quick VQ very quick W white MICRO TR microwave tower Mkr marker Ra Ref radar reflector R Bn radiobeacon Y yellow Bottom characteristics: gy gray h hard M mud Blds boulders Co coral Oys oysters bk broken G gravel Rk rock Sh shells Cy clay Grs grass S sand sy sticky Miscellaneous: AUTH authorized ED existence doubtful Obstn obstruction PA position approximate PD position doubtful Subm submerged Rep reported 21. Wreck, rock, obstruction, or shoal swept clear to the depth indicated (2) Rocks that cover and uncover, with heights in feet above datum of soundings

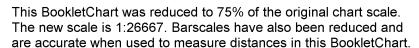
TID AL QUIDDENT D				
TIDAL CURRENT DATA				
PLACE	MAXIMUM CURRENTS			
NAME (LAT/LONG)	FLOOD		EBB	
SAN JOAQUIN RIVER	Direction (true) Degrees	Average Speed Knots	Direction (true) Degrees	Average Speed Knots
Antioch Point 0.3 mi E of 38°02' N/121°49' W West Island Light 0.5 mi SE of 38°01' N/121°46' W	128 90	1.5 0.4	304 270	1.4 0.7
(Sep 1999)				



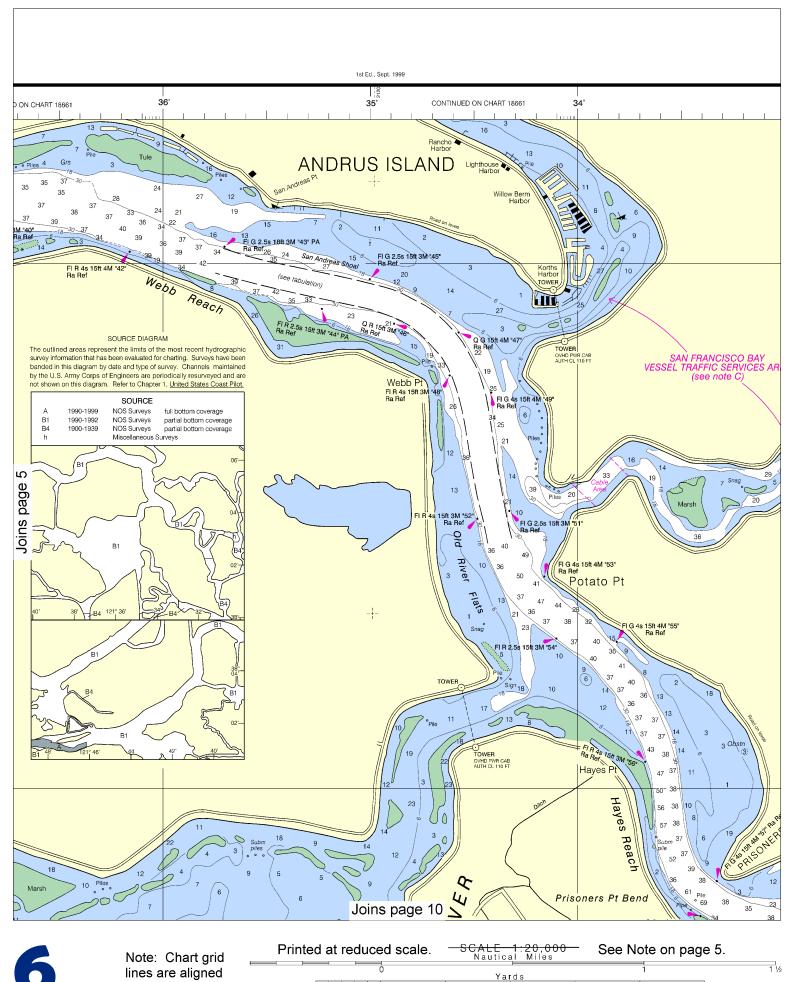






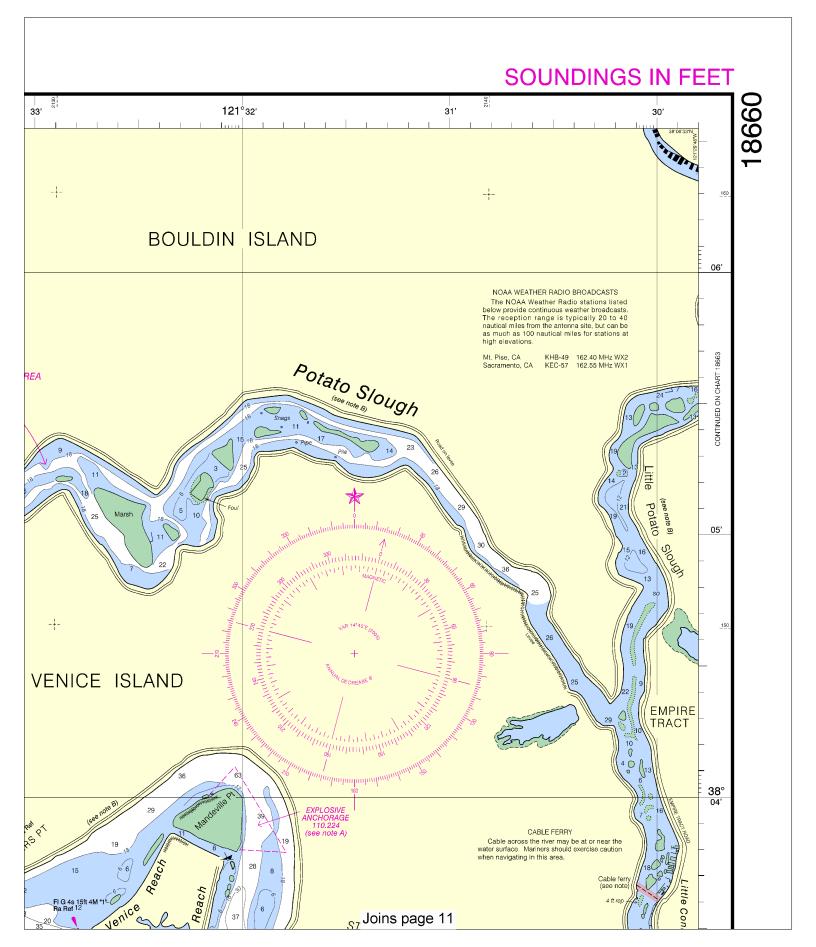


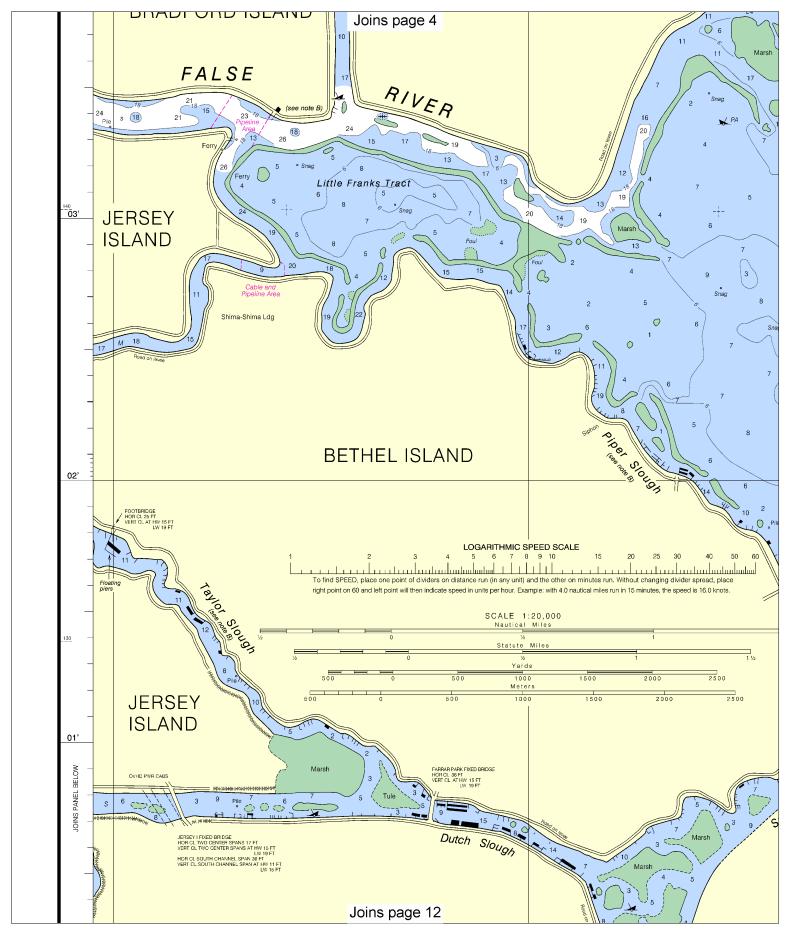




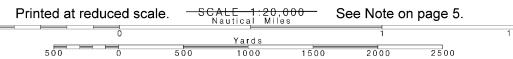
with true north.

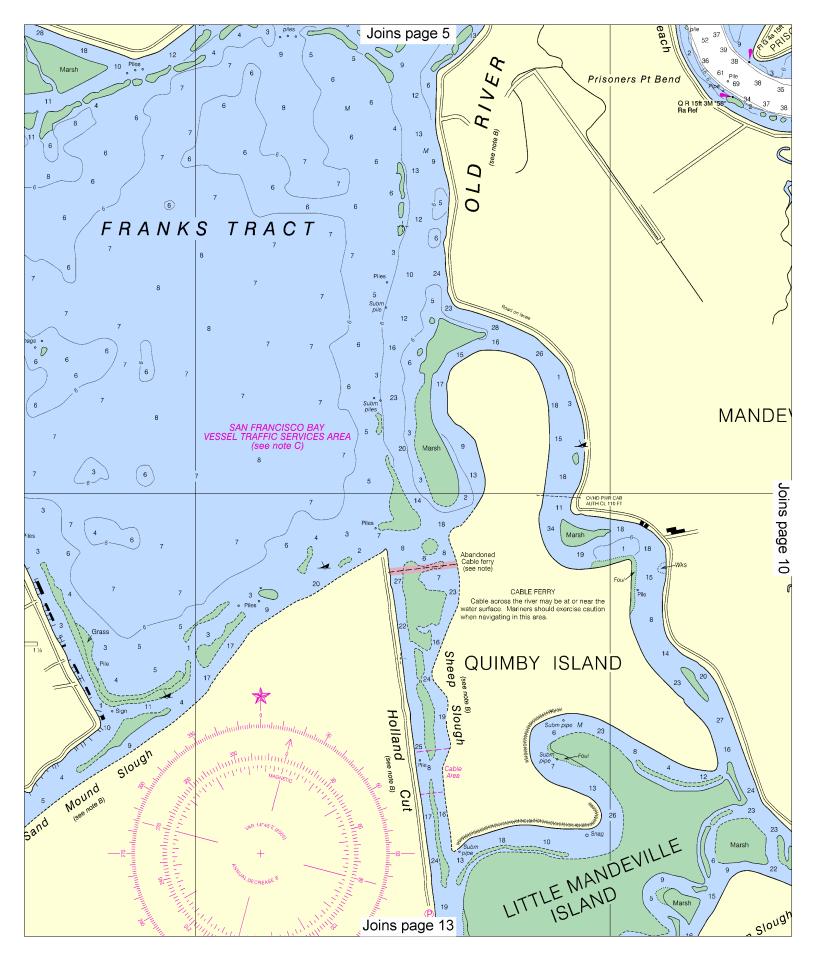




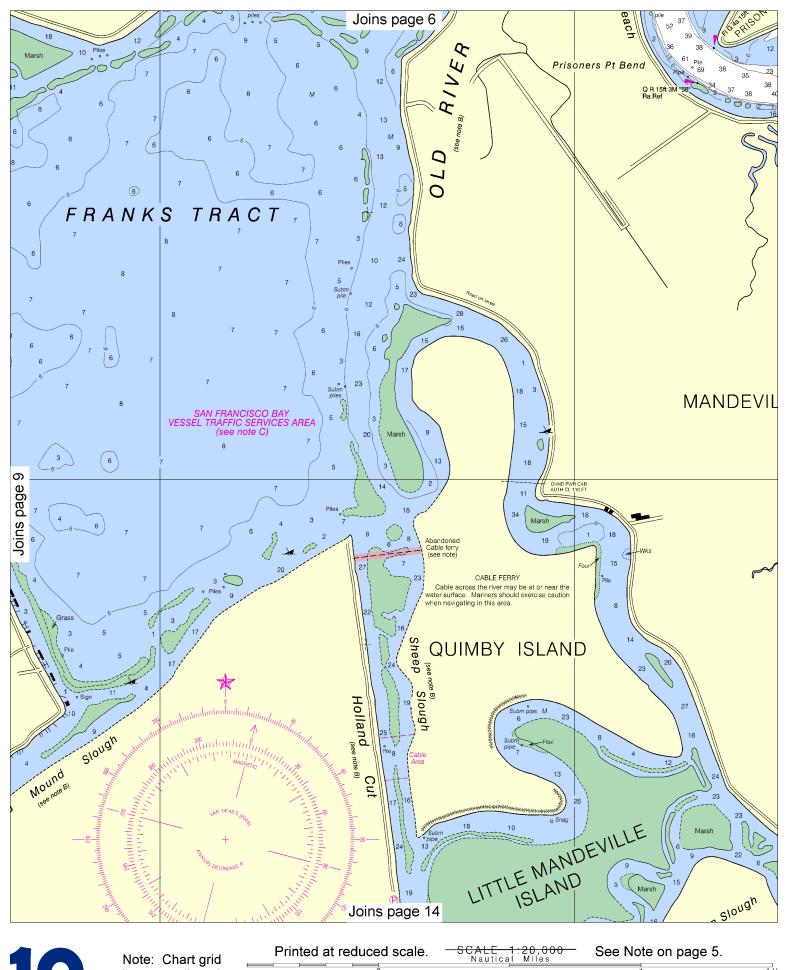






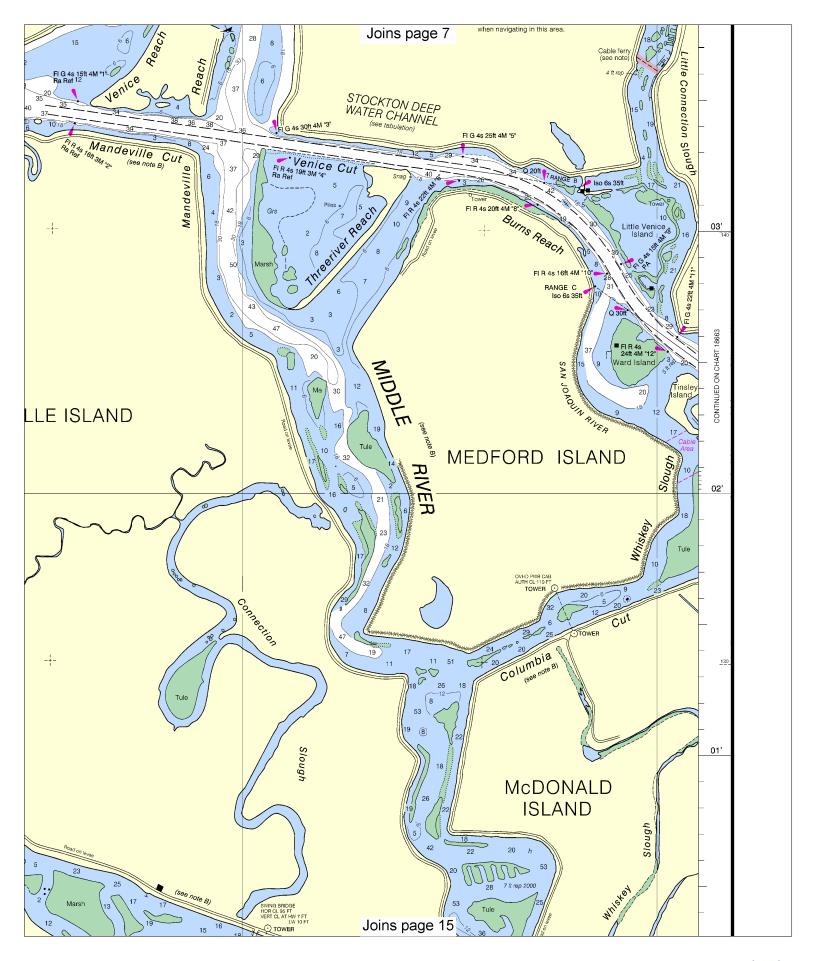


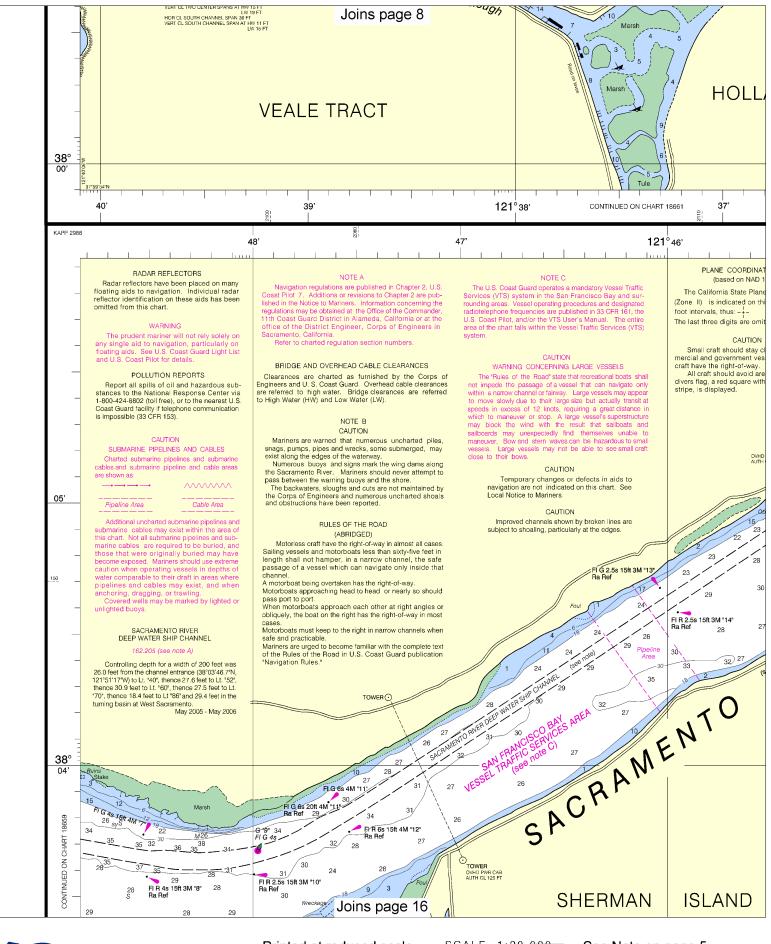




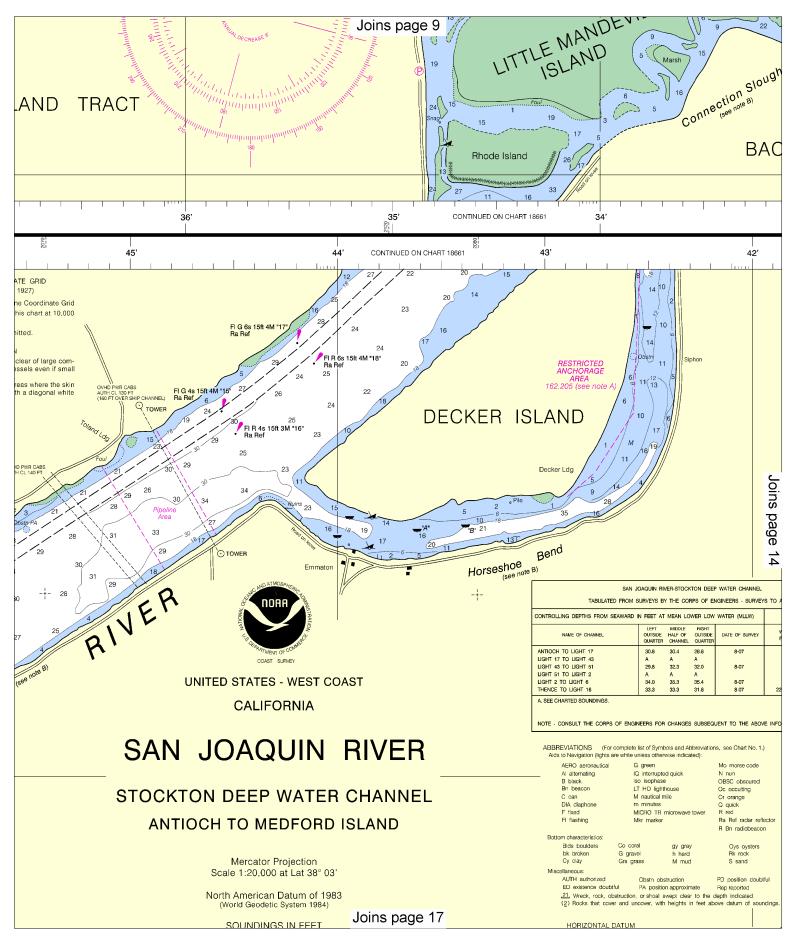
lines are aligned with true north.

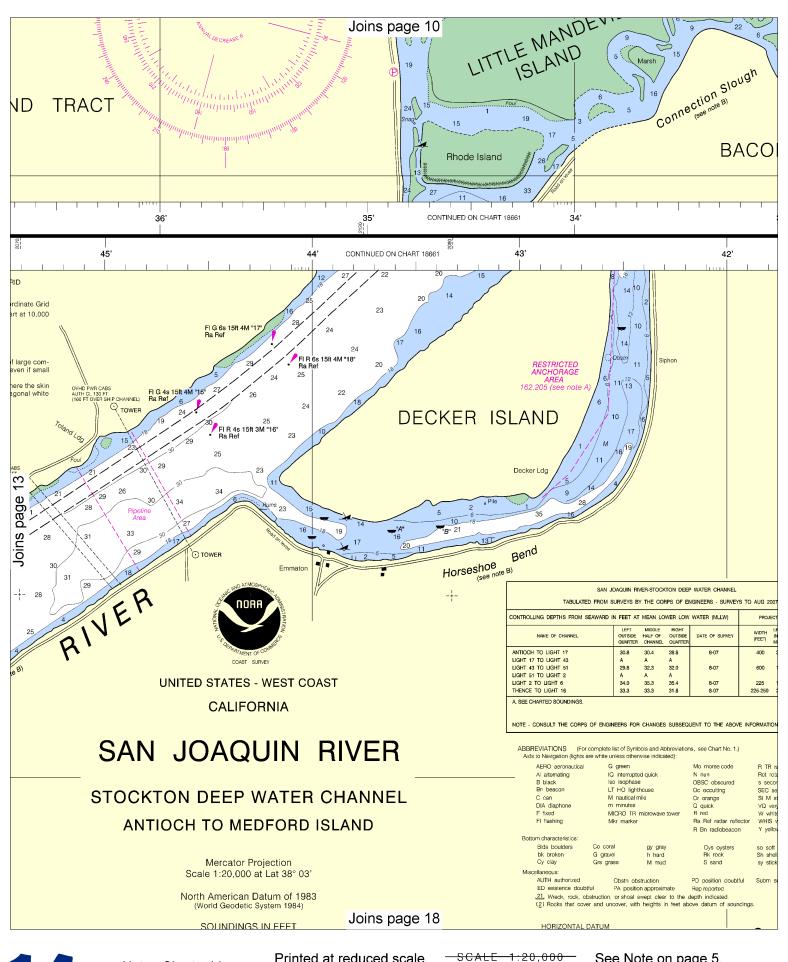


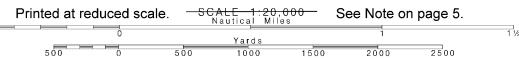


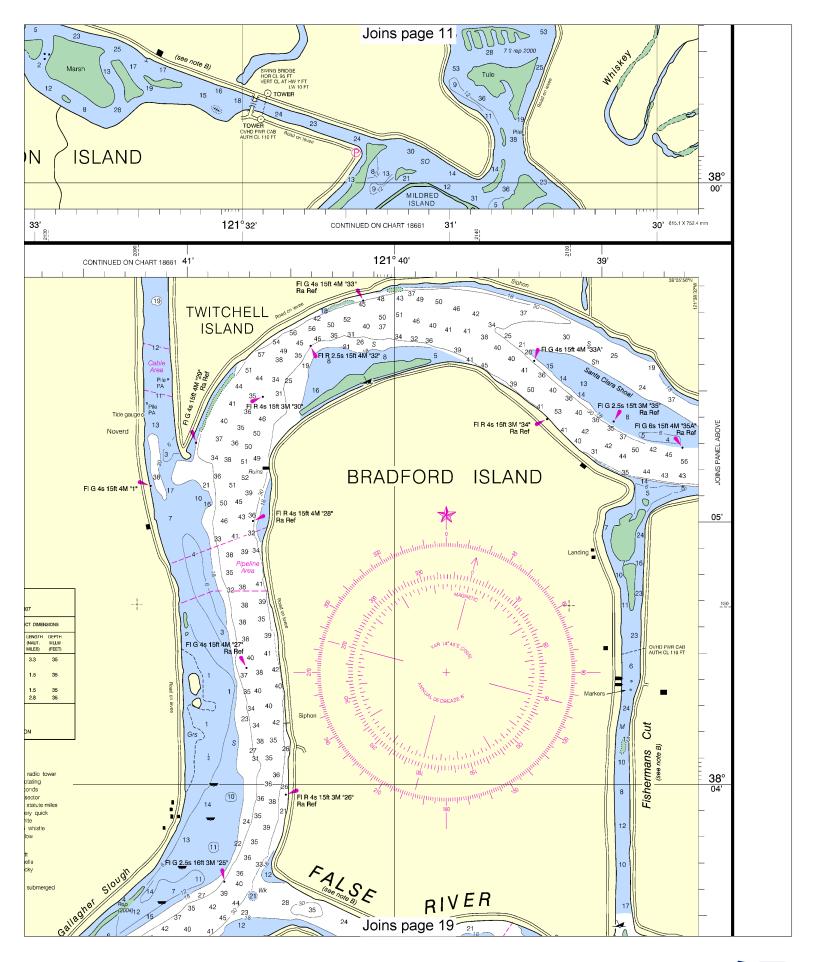


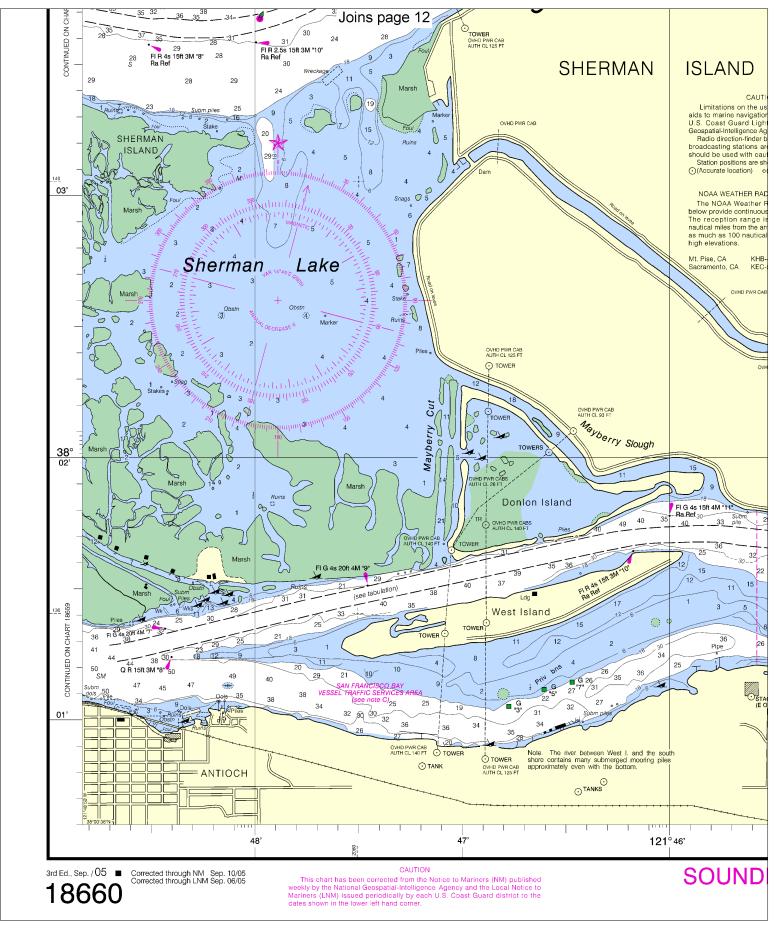


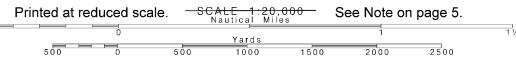


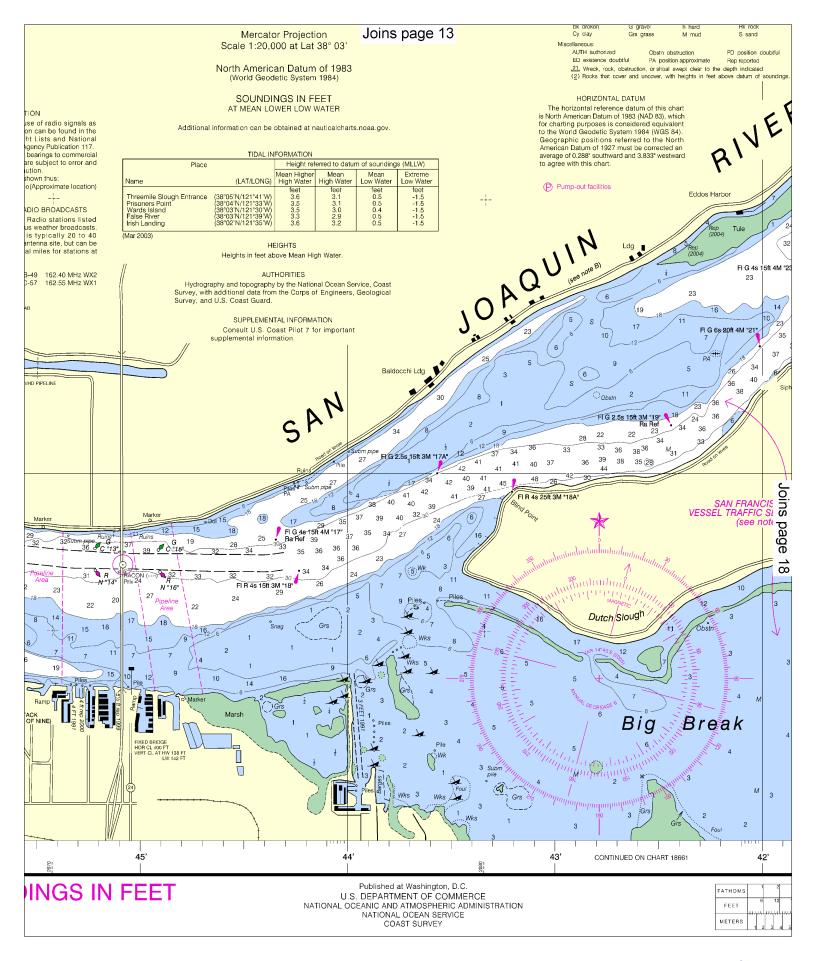


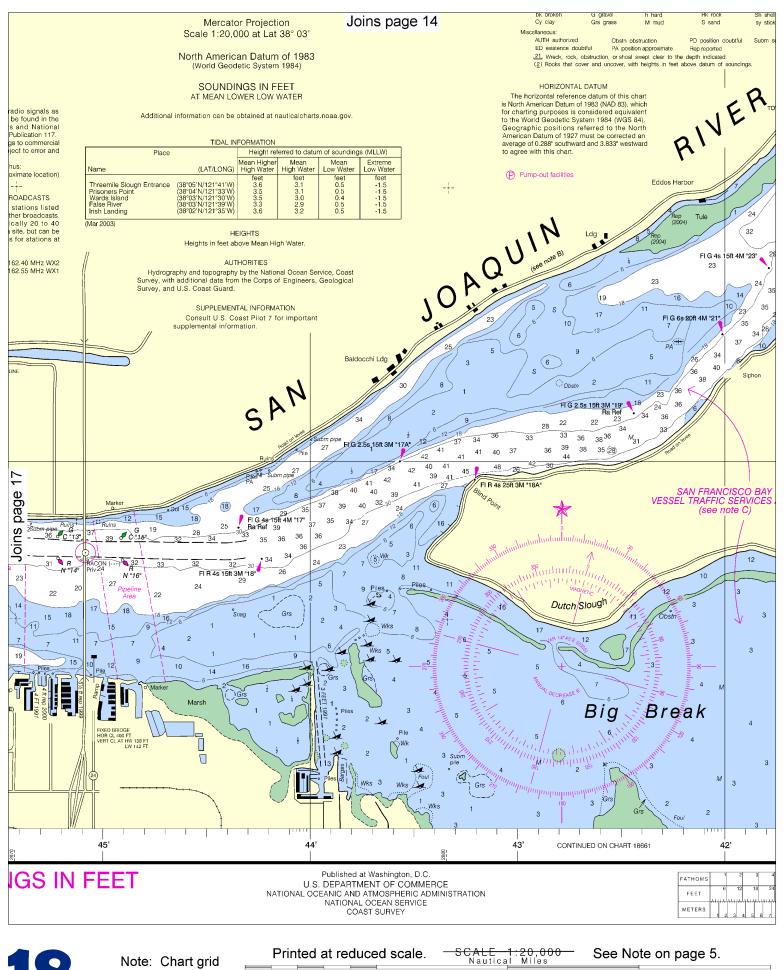


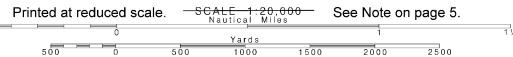


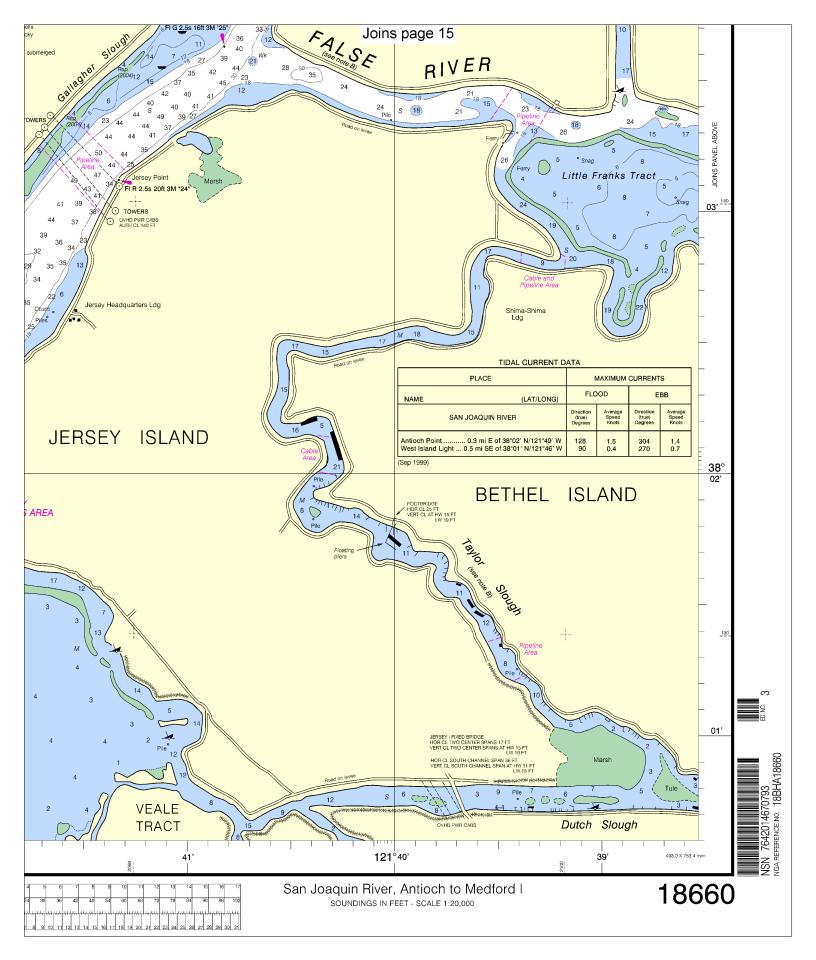














VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of

Emergency; Number of People on Board.

- · Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information — http://www.nauticalcharts.noaa.gov

Online chart viewer — http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html

Report a chart discrepancy — http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx

Chart and chart related inquiries and comments — http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs

Chart updates (LNM and NM corrections) — http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html

Coast Pilot online — http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm

Tides and Currents — http://tidesandcurrents.noaa.gov

Marine Forecasts — http://www.nws.noaa.gov/om/marine/home.htm

National Data Buoy Center — http://www.ndbc.noaa.gov/

NowCoast web portal for coastal conditions — http://www.nowcoast.noaa.gov/

National Weather Service — http://www.weather.gov/

National Hurrican Center — http://www.nhc.noaa.gov/

Pacific Tsunami Warning Center — http://ptwc.weather.gov/

Contact Us — http://www.nauticalcharts.noaa.gov/staff/contact.htm



For the latest news from Coast Survey, follow @nauticalcharts



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

